

## MISSOURI DEPARTMENT OF NATURAL RESOURCES ENERGY CENTER – ENERGY REVOLVING FUND

Œ	WINDOW REPLACEMENT/WIND	OW REDUCTION WORK	SHEET	
BUILD	ING LOCA	ATION	DATE	
To	estimate the savings of replacing existing window	vs with efficiency ungrades, the	following information must b	e known:
			ionowing information mast b	C KIIOWII.
	The R-Value of the new wall (window reduction The U-Value of the existing window (See U-Value The U-Value of the replacement window (See U The total area of the windows being replaced (so The heating energy cost (\$\footnote{m}\$/million Btu). The heating plant efficiency (in percent).	ue table below). I-Value table below).		
SAV	INGS CALCULATIONS			
		(a) Old Windows	(b) New Windows	(c) New Wall (window reduction)
1.	Enter the U-Values			
2.	Infiltration Factor	1.00	0.14	0.00
3.	Add line 1 to line 2			
4.	Enter area			
5.	Multiply line 3 by line 4			
6.	Multiply line 5 by .100 or [(degree days)*24/10 $^{\circ}$ ]			
7.	Enter the heating plant efficiency (percent divided by 100)			
8.	Divide line 6 by line 7			
9.	Enter the energy cost (\$/million BTU)			
10.	Multiply line 8 by line 9			
ANN	IUAL SAVINGS			
11.	Subtract line 10b and 10c from line 10a		\$	_ year
PRC	JECT COST			
12.	Enter the total cost of the window replacement in	cluding material, labor and design	gn	. \$
SIM	PLE PAYBACK			
13.	Divide line 12 by line 11			_ years
WIN	DOW U-VALUE TABLE			
	Window System Type			U-Value*
	Single Glass	dowwindow		0.50 0.91 0.44 0.55 0.35 0.38

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DESCRIPTION PAGE						
Window Replacement/Window Reduction Energy - Conservation Measure						
Describe the existing system and the proposed energy-conservation measure (use additional sheets necessary):	if					

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